

I CLAIM:

1. A device for transmitting light, comprising, in combination,

a) a fiber optics cable having light entrance and light exit ends,

b) structure including a body for positioning said entrance end to receive light,

c) said structure including a receiver carried by the body and receiving the entrance end of the cable,

d) and at least one anchor carried by said structure to attach the structure to a mounting board, for positively positioning said structure, and said body and receiver, relative to the board.

2. The combination of claim 1 wherein a portion of said structure is sidewardly offset relative to the receiver, said one anchor being in substantial alignment with said portion of said structure, and there being a shoulder on said one portion of said structure in substantial alignment with said anchor to receive pushing force transmission from a tool to drive the anchor toward an opening in the board.

3. The combination of claim 2 wherein there is a tool receiving recess in said structure, said shoulder being associated with said recess.

4. The combination of claim 1 including a light focusing and transmitting lens located in said structure in alignment with said entrance end of the light pipe.

*cable*

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5. The combination of claim 4 wherein said lens is associated with said receiver and the cable has a light transmitting core in alignment with a substantially flat light transmitting surface of the lens.

6. The combination of claim 5 wherein the lens and receiver are unitary, and the cable has a plastic jacket surrounding said core, said jacket retained to a bore defined by the receiver.

7. The combination of claim 6 including a cavity in the receiver in alignment with said lens for receiving a light source.

8. The combination of claim 7 including said light source in the form of an LED, in said cavity.

9. The combination of claim 1 wherein there are multiple of said anchors projecting from a mounting surface defined by said structure, said anchors offset from an axis defined by the receiver.

10. The combination of claim 9 wherein there are three of said anchors.

11. The combination of claim 1 wherein said body has multiple sides, two of said sides forming tongue and groove configurations to receive corresponding groove and tongue elements of adjacently mounted bodies.

12. The combination of claim 1 including a lens unit at the light exit end of the cable.

13. The combination of claim 12 wherein said lens unit has a light transmitting end wall, a side wall extending away from said end wall, the cable light exit end retained in assembled relation to said side wall, whereby light is transmitted from the cable exit end to said lens unit end wall.

14. The combination of claim 13 including a tubular retainer receiving said light exit end of the cable, the tubular retainer assembled to said side wall.

15. The combination of claim 14 wherein said side wall and said cable light exit end have interlocking relation.



22. The combination of claim 20 wherein said cam surfaces are convergent in a direction away from said lens unit end wall.

23. The combination of claim 16 wherein the retainer has a substantially cylindrical side surface in closely spaced relation to said spring fingers.

24. The combination of claim 12 including a panel carrying said lens unit.

25. The combination of claim 12 wherein said cable light entrance end is spaced from said unit end wall, and including an LED facing and spaced from said cable light entrance end to transmit light into the cable via said entrance end.

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26. A device for transmitting light, comprising,  
in combination,

a) a fiber optics cable having light entrance  
and light exit ends,

b) a lens unit at the light exit end of the  
cable, said unit having a light transmitting end wall, a  
side wall extending away from said end wall, the cable light  
exit end retained in assembled relation to said side wall,  
whereby light is transmitted from the cable exit end to said  
lens unit end wall,

c) and a tubular retainer receiving said light  
exit end of the cable, to position the cable exit end  
relative to the unit end wall whereby that end wall is  
substantially fully illuminated by light from the cable, the  
tubular retainer assembled to said side wall.

27. The combination of claim 26 wherein said side  
wall and said cable light exit end have interlocking  
relation.

28. The combination of claim 26 wherein said side  
wall has multiple retention fingers, and said retainer and  
fingers have interlocking relation.

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36. The combination of claim 12 wherein said cable light entrance end is spaced from said unit, and including an LED facing and spaced from said cable light entrance end to transmit light into the cable via said entrance end.

37. The combination of claim 36 including a support board carrying said LED, and another support panel supporting said lens unit, said panels spaced apart in fixed relation.

38. The combination of claim 1 including a bore defined by the body, the receiver extending in said bore and retained to said bore.

39. The combination of claim 38 including retention ribs on one of said bore and receiver.